

**WINN DIXIE #1443
JET GROUT COLUMN IMPROVEMENTS**

**STORMWATER POLLUTION PREVENTION PLAN
(SWPPP)**

January 2015

PREPARED BY:



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(SWPPP)**

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FOR

**WINN DIXIE #1443
JET GROUT COLUMN
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JANUARY 8, 2015

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***STORMWATER POLLUTION
PREVENTION PLAN (SWPPP)***

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Stormwater Pollution Prevention Plan (SWPPP)

for:

COVINGTON LA – WINN DIXIE STORE
JET GROUT COLUMN IMPROVEMENTS

Operator(s):

Company or Organization Name: Hayward Baker

Name: Tyson Deklavs

Address: 509 North Sam Houston Parkway East (Suite 300)

City, State, Zip Code: Houston, TX 77060

Telephone Number: (281) 668-1870

Fax/Email: tedeklavs@haywardbaker.com

Company or Organization Name: 3-Zs Real Estate Company, LLC

Name: Roy Zuppardo

Address: 5010 Veterans Memorial Blvd

City, State, Zip Code: Metairie, LA 70006

Telephone Number: (504) 251-7699

Fax/Email: rlzuppardo@cox.net

SWPPP Contact(s):

Company or Organization Name: ProForce, LLC

Name: Michael Tilly

Address: 40507 Pumpkin Center Rd

City, State, Zip Code: Hammond, LA 70403

Telephone Number: (985) 789-9501

Fax/Email: mtilly@proforceus.com

SWPPP Preparation Date:

1/6/2015

Estimated Project Dates:

Project Start Date: 01/15/2015

Project Completion Date: 05/01/15

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SECTION 1: PROJECT INFORMATION AND CONTACTS

1.1 Project/Site Information

Project/Site Name: Covington LA – Winn Dixie (Store 1443)

Project Street/Location: 70431 Highway 21

City: Covington State: LA ZIP Code: 70433

County or Similar Subdivision: St Tammany Parish

Latitude/Longitude

Latitude: 30 ° 27' 14.45" N (degrees, minutes, seconds) Longitude: 90° 08' 17.05" W (degrees, min, seconds)

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale:) ☐ EPA Web site ☐ GPS

☒ Other (please specify): Google Earth

Is the project located in Indian country? ☐ Yes ☒ No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable."

Is this project considered a federal facility? ☐ Yes ☒ No

LPDES project or permit tracking number*:

**(This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (NPDES) construction general permit.)*

1.2 Contact Information/Responsible Parties

Owner / Developer:

Company or Organization Name: 3-Zs Real Estate Company, LLC

Name: Roy Zuppardo

Address: 5010 Veterans Memorial Blvd

City: Metairie State: Louisiana Zip Code: 70006

Telephone Number: (504) 251-7699

Fax/Email: rlzuppardo@cox.net

Area of Control (if more than one operator at site): Limits of Construction

Construction General Contractor (24-Hour Contact):

Company or Organization Name: Hayward Baker
Name: Tyson Deklavs – Area Manager
Address: 509 North Sam Houston Parkway East, Suite 300
City: Houston State: Texas Zip Code: 77060
Telephone Number: (281) 668-1870
Fax/Email: (281) 668-1871
Area of Control (if more than one operator at site): Limits of Construction

Owner/Developer GC (24-Hour Contact):

Company or Organization Name: 3-Zs Real Estate Company, LLC
Name: Roy Zuppardo
Address: 5010 Veterans Memorial Blvd
City: Metairie State: Louisiana Zip Code: 70123
Telephone Number: (504) 251-7699
Fax/Email: rlzuppardo@cox.net
Area of Control (if more than one operator at site): Limits of Construction

This SWPPP was Prepared by:

Company or Organization Name: ProForce, LLC
Name: Michael P. Tilly, PE
Address: 40507 Pumpkin Center Rd
City: Covington State: LA Zip Code: 70433
Telephone Number: (985) 789-9501
Fax/Email: mtilly@proforceus.com

1.3 Agency Contacts

Approval Agency:

Company or Organization Name: Louisiana Department of Environmental Quality
Name: Water Permits Division
Address: 602 N. Fifth Street
City: Baton Rouge State: LA Zip Code: 70802
Telephone Number: (225) 219-3181
Fax/Email: (225) 219-3309

Regulatory Agency:

Company or Organization Name: Louisiana Department of Environmental Quality
Name: Water Permits Division
Address: 602 N. Fifth Street
City: Baton Rouge State: LA Zip Code: 70802
Telephone Number: (225) 219-3181
Fax/Email: (225) 219-3309

Emergency 24-Hour Contact:

Company or Organization Name: LA Emergency Hazardous Materials Hotline
Name: _____
Telephone Number: (225) 925-6595

Spill Response Contractor:

Company or Organization Name: TBD
Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Telephone Number: _____
Fax/Email: _____

1.4 Estimated Project Dates

1) Construction General Contractor:

- A. Estimated NOI filing date: January 15, 2015
- B. Estimated NOT filing date: May 1, 2015

2.3 SWPPP Amendments

- 1) Contractor to fill out corrective action forms throughout the course of construction as changes and repairs are made in the field to the BMPs (*see Appendix C for Corrective Action Documentation*)

SECTION 3: STORMWATER POLLUTION PREVENTION PLAN

3.1 Site Responsibilities

- 1) SWPPP Areas of Management
 - A. The site is located in Covington, LA at the rear of the Winn Dixie Store located at 70431 LA Highway 21 (*see Appendix A, for Site Layout*)
- 2) General Contractor and Owner/Developer Site Responsibilities
 - A. GC Responsibility Map
 - i. The General Contractor shall be responsible for all tasks associated with the installation of Jet Grout Columns. This includes the staging area, all Jet Grout Column locations and all entrances/exits for access to the site and adjacent pad/parking locations during the period that GC is under contract for this task. (*see Appendix A, SWPPP Details*)
 - B. GC Maintained BMPs
 - i. The General Contractor shall maintain the staging area, all Jet Grout Column locations and all entrances/exits for access to the site and adjacent pad/parking locations and will practice good housekeeping techniques within the limits of these areas and at a minimum maintain the practices specified within this manual
 - C. Owner/Developer Responsibility Map
 - i. The Owner/Developer shall be responsible for all tasks associated with the site preparation, concrete apron installation and final site stabilization tasks required to complete the project after Jet Grout Columns are installed. This includes the staging area, all site prep areas and installation of the concrete apron placed on top of the Jet Grout Columns, and all entrances/exits for access to the site and adjacent pad/parking locations until the site has been stabilized for sediment control. (*see Appendix A, SWPPP Details*)
 - D. Owner/Developer Maintained BMPs
 - i. The Owner/Developer shall maintain the staging area, all site prep and apron installation areas, and all entrances/exits for access to the site and adjacent pad/parking locations and will practice good housekeeping techniques within the limits of these areas and at a minimum maintain the practices specified within this manual

E. SWPPP Inspector Contact Information

Name: Michael Tilly
Company: ProForce, LLC
Address: 40507 Pumpkin Center Rd, Hammond, LA 70403
Phone: (985) 789-9501
Email: mtilly@proforceus.com
Qualifications: Delegation of Authority (6/8/10)

3.2 Overview/Scope

1) Construction Project Description

A. The proposed construction will consist of drilling and installing around 120 Jet Grout Columns as part of a slope stabilization and apron reconstruction project at the Winn Dixie grocery store. The pre-construction condition for this site is that of an existing shopping center and associated parking lots. The existing concrete apron at the rear of the Winn Dixie store has collapsed due to a slope failure and the Jet Grout Columns will be installed to stabilize the soil in the existing slope so that a new apron can be installed. The installation of the Jet Grout Columns will be completed by the General Contractor (Hayward Baker). After the columns are installed the site will be prepared for installation of a reconstructed concrete apron to match the grade of the surrounding existing apron. The final tasks associated with installing the new apron will be completed by the Owner/Developer (3-Zs Real Estate Company). Sediment control measures will be taken to protect all adjacent property from sediment erosion, especially the drainage ditch located immediately behind the work area. Soil disturbing activities will include: drilling and installation of the Jet Grout Columns, site preparation; concrete breaking and removal; grading; excavation in preparation for new apron installation; construction of related concrete replacement areas, and final stabilization of the entire site including seeding of sloped areas as necessary at project end. The limits of construction encompass approx 1.3 acres of land (*see Appendix A, for Site Drawings*).

2) Site Conditions

A. Drainage Patterns and Regional Topography

- i. The proposed site will drain to the adjacent stormwater ditch at the back of the store via sheet flow drainage. The stormwater ditch discharges into the Tchefuncta River which continues to Lake Pontchartrain and thence to the Gulf of Mexico. This region is generally flat with very little natural fall across the land.

B. Soils Information

- i. The project site consists of fatty clays and silts.

C. Pre/Post Construction Impervious Coverage

- i. The existing site consists of an operating Winn Dixie grocery store, other retail buildings and the associated parking lots. The amount of impervious coverage will be increased in the post-construction condition approx 1 acres.

D. Pre/Post Construction Stormwater System

- i. The pre-construction storm water system consists of a surface drainage via sheet flow that discharges into the adjacent stormwater ditch. There is no detention on site. The post-construction storm water system will consist of the same drainage system with no modifications. The system will still discharge into the adjacent stormwater ditch.

E. Pre/Post Stormwater Data

- i. There are no pre/post data requirements for the project.

F. Final Stabilization Determination

- i. All bare soil areas shall be stabilized with a permanent fast growing cover and/or mulch upon completion of construction operations. Final concrete pads will be poured to cover construction areas as defined in construction plans and specifications.

3) BMP Sequencing Discussion (Phasing)

A. Construction Sequencing

- i. Sediment and erosion control facilities shall be installed prior to commencing with any other construction activities.
- ii. The General Contractor and the Owner/Developer shall review their respective grading sequences to ensure that the least amount of land possible at any one time is disturbed without permanent stabilization.
- iii. After the erosion control devices have been installed the contractor may proceed with site preparation and Jet Grout Column Installation activities.
- iv. After Jet Grout Columns have been drilled and installed the area surrounding this work will be cleaned and prepped for future tasks
- v. Final backfilling around the Jet Grout Columns will be completed and a new concrete apron will be poured for final site stabilization.
- vi. The contractor shall not remove erosion control devices until final stabilization has been reached and a Notice of Termination has been filed with the appropriate government authority.

B. Construction Sequencing Diagram

- i. *N/A*

- 4) Unique Features (wetlands, streams, lakes, protected areas, etc.)
 - A. Wetland Setbacks
 - i. N/A
 - B. Conservation Areas
 - i. N/A
 - C. Receiving Water(s)
 - i. Impairments
 - 1. N/A
 - ii. Total Maximum Daily Load (TMDL) Information
 - 1. N/A

- 5) Endangered Species, Critical Habitat, and/or Protected Cultural Resources On-site
 - A. N/A

3.3 BMP Selection, Installation, Maintenance, and Inspection

- 1) BMP Selection
 - A. Potential Construction Pollutant Discussion
 - i. Potential Sources of Sediment to Storm Water Runoff
 - 1. Existing exposed soils and broken concrete from previous apron collapse
 - 2. Site preparation activities including excavation and soil handling tasks prior to grouting
 - 3. Jet Grout installation operations
 - ii. Potential Pollutants and Sources, Other Than Sediment, to Storm Water Runoff

Trade Name Material	Chemical/Physical Description	Storm Water Pollutants
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates
Concrete	White solid	Limestone, sand

Curing compounds	Creamy white liquid	Naphtha
Wastewater from construction equipment washing	Water	Soil, oil and grease, solids
Hydraulic oil/ fluids	Brown oily petroleum hydrocarbon	Mineral oil
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil and grease, naphthalene, xylenes

iii. Potential Non-Storm Water Discharge Discussion (i.e. spills, leaks)

1. Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
2. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
3. All spills will be cleaned up immediately after discovery.
4. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
5. Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of the size.
6. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
7. The contractor responsible for the day-to-day site operations will be the spill prevention and cleanup coordinator. They will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

B. BMP Installation, Maintenance, and Inspection

i. Documentation

1. SWPPP

- a. This manual shall be kept on-site at all times and made readily available for review upon request
- b. BMPs identified in this SWPPP will be installed and maintained to limit releases of sediment to adjacent drainage features.

2. NOI, Inspections, and Sampling Documentation

- a. These materials or copies of these materials shall be kept within the SWPPP manual at all times

3. Required Posted Information

- a. The site shall be posted prior to and during construction as required by the governing authorities.

ii. Vehicle and Equipment Management

1. Construction Site Entrance and Tracking Control

- a. Mechanical Sweeping of paved areas leading into/out of the construction area will be accomplished as needed to minimize any tracking of sediments offsite from the construction area.

2. Concrete Material Management

- a. All materials shall be handled as previously outlined in this manual.
- b. All concrete trucks shall be cleaned in the designated washout areas prior to exiting the construction site.

3. Equipment Management Area

- a. The staging area shall be maintained appropriately to minimize erosion and sediment runoff. All materials shall be properly stored to prevent possible leaks and contamination of surrounding waters.

iii. Erosion Control (Slope, Stockpile, and Other Disturbed Areas)

1. Vegetation and Resource Preservation

- a. The contractor shall at a minimum set up those erosion control devices shown on Drawings in Appendix A and maintain them throughout the course of construction.

2. Ground Cover (Temporary and Permanent)

- a. The general contractor and the grading contractor shall review their grading sequence to ensure that the least amount of land possible at any one time is disturbed without permanent stabilization.
- b. Temporary hydro-seeding shall take place in areas after clearing and grubbing when area remains idle with no construction activity for 14 days.

- c. All graded areas shall be stabilized with a permanent fast growing cover and/or mulch upon completion of grading operations. Completion of grading operations does not mean at the end of the project. As soon as final grades are established in an unpaved area, the contractor shall stabilize with a temporary grass or permanent sod. If a temporary grass is applied, it will be the contractor's responsibility to apply a permanent seed or sod at the proper time of year.
 - d. Contractor shall refer to the landscaping/planting plan for details.
 - 3. Dust and Wind Control
 - a. The contractor shall at all times limit collection of loose sediments in order to limit sediment from blowing off the site due to wind.
 - 4. Stockpile Stabilization
 - a. The contractor shall take all steps necessary in order to prevent soil stockpiles from blowing off the site due to wind and storm water runoff. Measures allowable for use include but are not limited to watering of the stockpile regularly, covering the stockpile with a water resistant tarp, and limiting vehicular traffic around the stockpile.
 - 5. Outfall Protection
 - a. Any outfall pipes in the construction area will be maintained to discharge into the drainage ditch beyond the work area, or these will be tied in to existing stormwater drains once they have been re-established
 - 6. Swale Stabilization
 - a. The contractor shall install rip-rap if necessary to reduce erosion on the banks of the drainage ditch.
- iv. Sediment Control and Dewatering
 - 1. Perimeter Control
 - a. Silt fencing shall be installed per the manufacturer's recommendations at the locations shown on Drawings included in Appendix A of this SWPPP.
 - b. Built up sediment will be removed from silt fence when it has reached one foot from the bottom of the fence.
 - c. Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
 - d. Inspections of the silt fence shall take place on a daily basis for the needed removal of any accumulated silts, debris, or repair of damaged silt fence. The silt fence shall also be inspected within weekly, and within 24 hours of any rainfall event > 0.50 in.

2. Temporary Inlet Protection
 - a. Inlet protection is not required for this project. All stormwater flows in the area are sheet flows over the site and into the drainage ditch at the back of the property.
 - b. BMPs must be inspected at least once every fourteen (14) calendar days, and before anticipated storm events (or series of storm events such as intermittent showers over one or more days), and within 24 hours of the end of a storm event 0.50 inches or greater.
 3. Sediment Traps and Basins
 - a. There will be no sediment basin on site due to the fact that a detention pond will not be required on site..
 4. Temporary and Permanent Check Dams
 - a. There will be no check dams on site. There will be no ditches onsite in which sediment runoff must be controlled.
 5. Dewatering
 - a. Dewatering is not expected to be required for this project.
- v. Material and Waste Storage, Handling, and Management
1. Chemical Storage and Management
 - a. The contractor shall make an effort to store only enough products required for the project onsite.
 - b. Products shall be kept in their original containers with the original manufacturer's label.
 - c. Substances will not be mixed with one another unless recommended by the manufacturer.
 - d. Whenever possible, all of a product will be used up before disposing of the container.
 - e. Manufacturer's recommendations for proper use and disposal will be followed.
 - f. All materials onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
 - g. Operators shall prevent untreated nutrient-enriched wastewater or hazardous waters from being discharged to surface or ground waters by using designated areas for fueling and maintenance. Dispose of all used oil, antifreeze, solvents, and other automotive-related chemicals according to the manufacturer's instructions.
 2. Solid Waste Management
 - a. Solid waste shall be disposed of in an appropriate onsite container/dumpster. No hazardous materials shall be disposed of within said dumpster. The onsite dumpster shall be emptied offsite at an appropriate disposal facility meeting with local and state requirements.

3. Portable Sanitary Management

- a. Portable sanitary facilities shall be placed onsite in an area that will ensure the facilities will be safe from tipping over and spilling.
- b. Portable sanitary facilities shall be provided by a licensed contractor and be disposed of offsite by a licensed contractor.

C. SWPPP Training Procedures

- i. Individuals Responsible for Training
 1. Operator, General Contractor, Subcontractor, etc.
- ii. Training Required
 1. General storm water and BMP awareness training for staff and subcontractors
 2. Detailed training for staff and subcontractors assigned with specific storm water responsibilities
 3. Records of SWPPP training with sign in sheets should be kept in this SWPPP. (*see Appendix F for Training Log forms*)

D. SWPPP Inspections and Documentation

- i. BMP'S must be inspected at least once every fourteen (14) calendar days, before anticipated storm events (or series of storm events such as intermittent showers over one or more days), and within 24 hours of the end of a storm event 0.50 inches or greater.
- ii. Built up sediment will be removed from silt fence when it has reached one foot from the bottom of the fence.
- iii. Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- iv. Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- v. A maintenance inspection report will be made after each inspection (*see Appendix C for Inspections forms and documentation*)

E. SWPPP Storage

- i. During Construction
 1. The SWPPP manual shall be kept in the onsite job trailer throughout the course of construction and shall be made readily available upon request.
- ii. Post-Construction
 1. Records shall be retained for a minimum of 3 years after the permit is terminated.

F. Spill Prevention Control and Countermeasures

- i. (*see section 3.3.1.A for details*)